

FIG.1

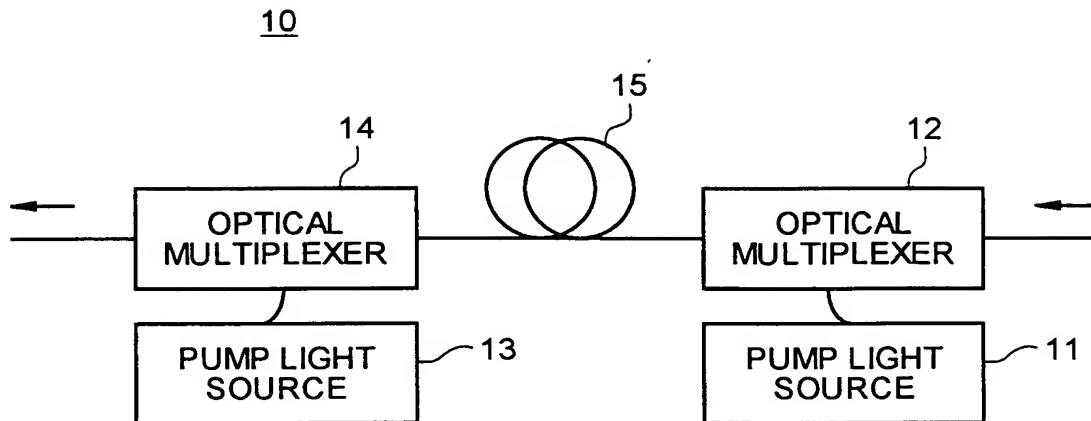
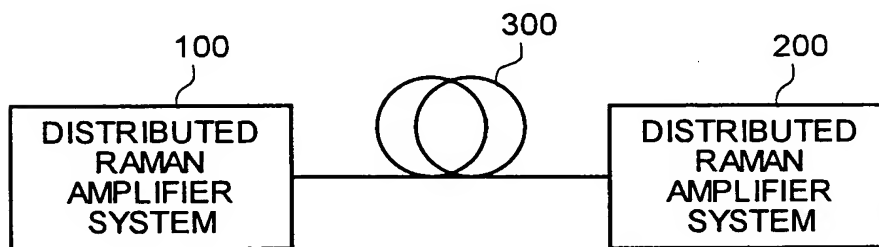


FIG.2



A diagram of a circular structure with four concentric circles. The circles are labeled 1, 2, 3, and 4 from the innermost to the outermost. Below the circles, four horizontal dimension lines with arrows at both ends are labeled $d1$, $d2$, $d3$, and $d4$ from top to bottom. $d1$ corresponds to the innermost circle, $d2$ to the second circle, $d3$ to the third circle, and $d4$ to the outermost circle.

The diagram shows a four-level system with states 1, 2, 3, and 4. State 1 is the highest energy level, followed by state 3, then state 2, and state 4 is the lowest energy level. Transitions are labeled d_1 (1 to 2), d_2 (1 to 3), d_3 (3 to 2), and d_4 (2 to 4). The energy levels are labeled n_1, n_2, n_3, n_4 from top to bottom. The energy differences between states are labeled Δ_1 (1 to 2), Δ_2 (2 to 4), and Δ_3 (3 to 4).

FIG.4

CHARACTERISTICS OF PRODUCED FIBERS

	$\Delta 1$ (%)	$\Delta 2$ (%)	$\Delta 3$ (%)	d1 (μm)	d2 (μm)	d3 (μm)	λ_0 (nm)	D (ps/nm/km)	LOSS (dB/km)	MFD (μm)	gR/A _{eff} (1/W/km)	LOSS _{ϕ_{20}} (dB/m)	λ_{cc} (nm)
1	0.6	-0.3	0.3	7.10	12.90	16.77	1415	1.23	0.245	7.09	0.79	3.4	1253
2	0.6	-0.3	0.1	6.90	11.50	14.95	1406	1.93	0.254	7.01	0.81	2.4	863
3	0.6	-0.3	0.2	7.32	12.20	18.30	1401	1.96	0.282	7.21	0.76	4.5	1372
4	0.55	-0.5	0.2	7.77	11.10	16.65	1366	1.93	0.255	7.40	0.73	4.6	1188
5	0.5	-0.5	0.4	8.26	12.70	16.51	1372	3.06	0.243	7.69	0.67	4.8	1397
6	0.55	-0.5	0.3	7.67	11.80	15.34	1374	3.10	0.247	7.24	0.76	4.8	1290

DISPERSION D, TRANSMISSION LOSS LOSS, MODE-FIELD DIAMETER MFD,
WAVELENGTH OF 1450 NANOMETERS FOR MEASURING gR/A_{eff}, WAVELENGTH
OF 1550 NANOMETERS FOR MEASURING BENDING LOSS LOSS _{ϕ_{20}}

FIG.5

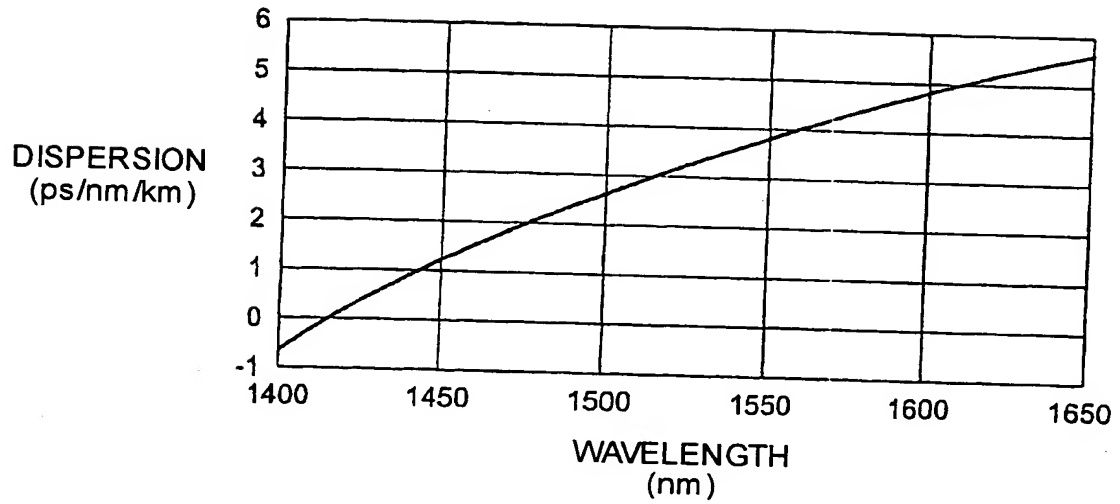


FIG.6

